

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P961845

Luminaire Tested: **NAV-SB2B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7478.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

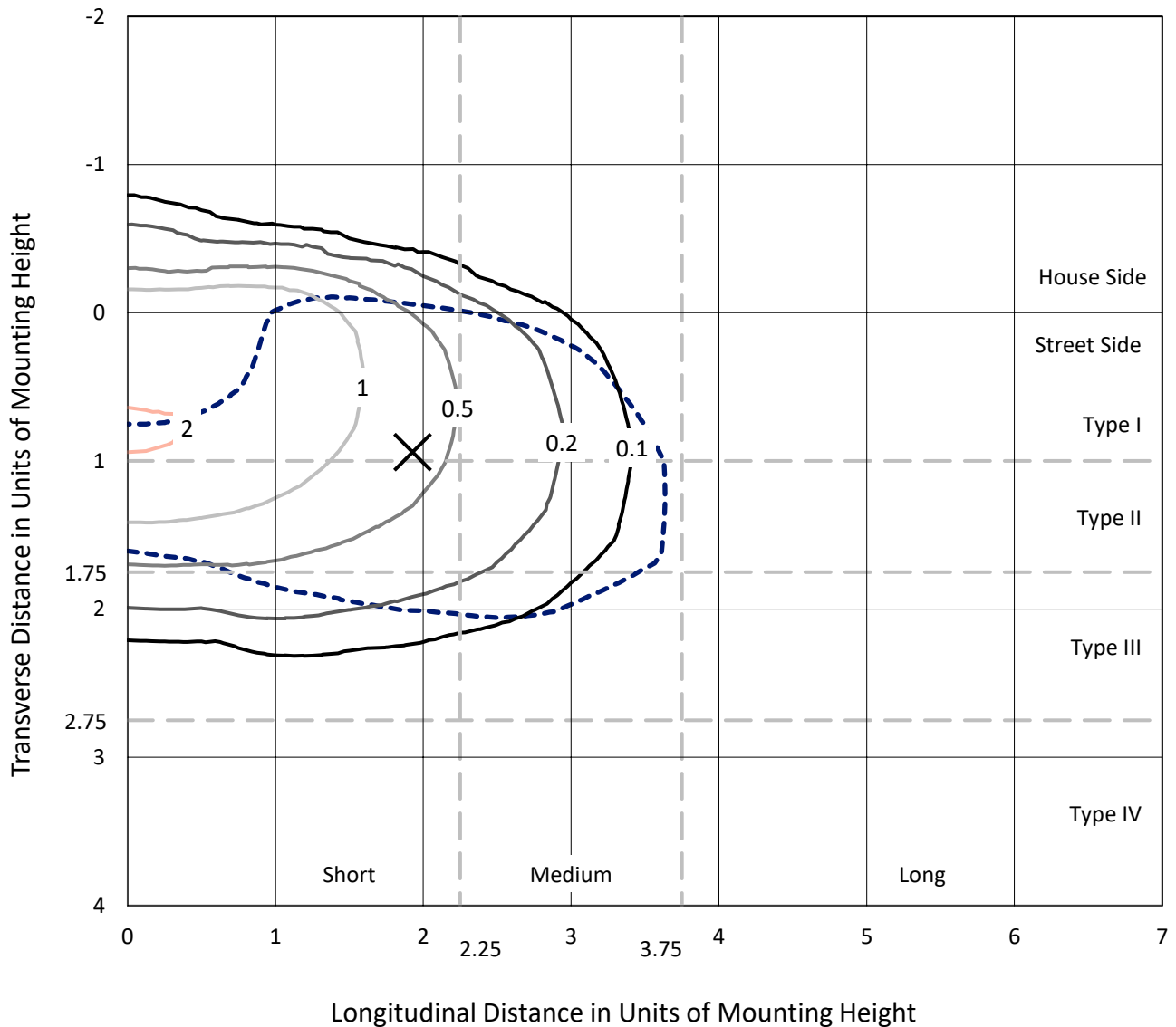
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

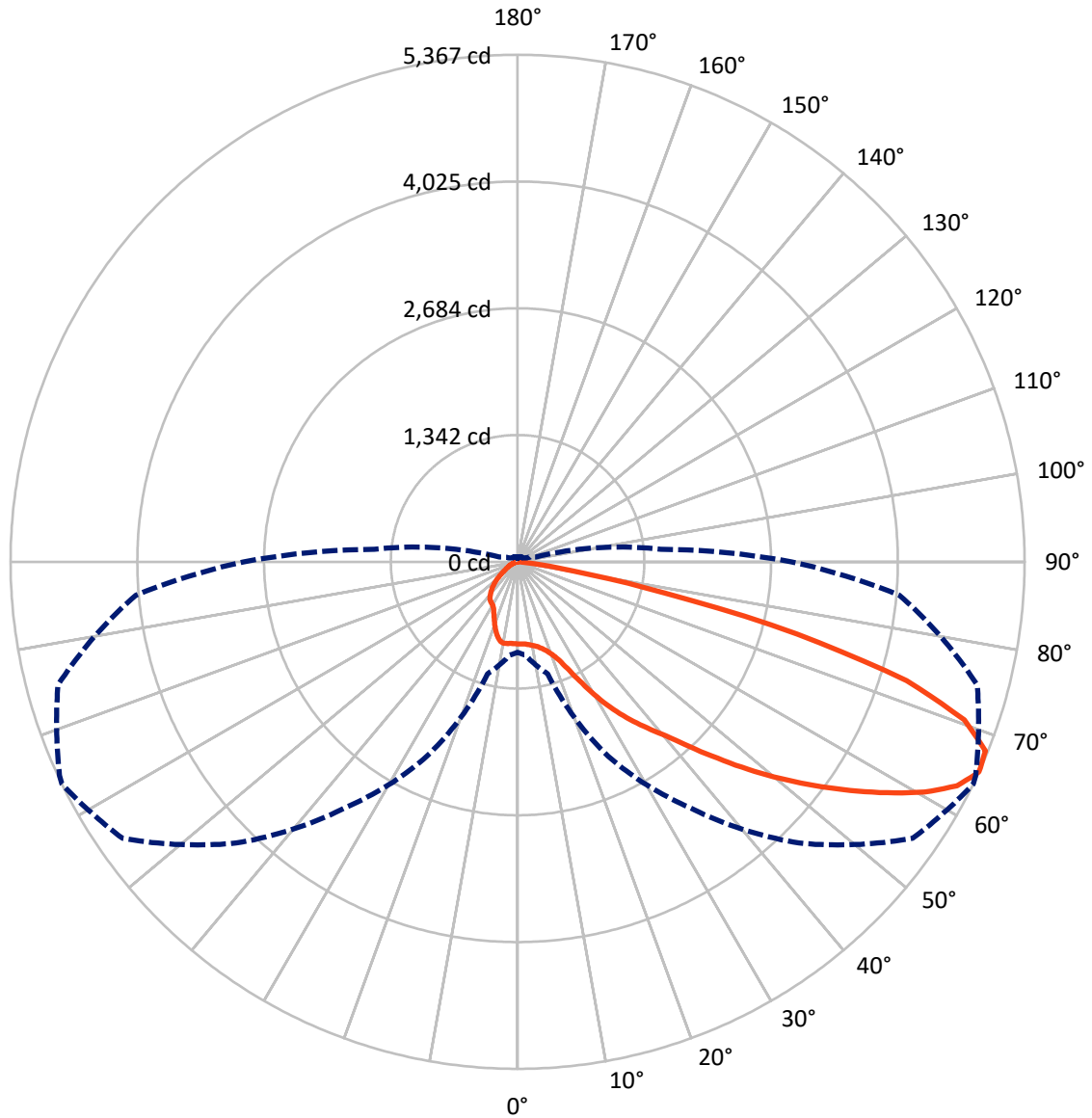
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1000.1	0.0	1000.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6478.3	0.0	6478.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	7478.4	0.0	7478.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.1
10°-20°	217.7	2.9
20°-30°	412.4	5.5
30°-40°	834.6	11.2
40°-50°	1421.7	19.0
50°-60°	1933.5	25.9
60°-70°	1815.6	24.3
70°-80°	727.4	9.7
80°-90°	35.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7478.4	100.0
0°-180°	7478.4	100.0

Coefficient of Utilization



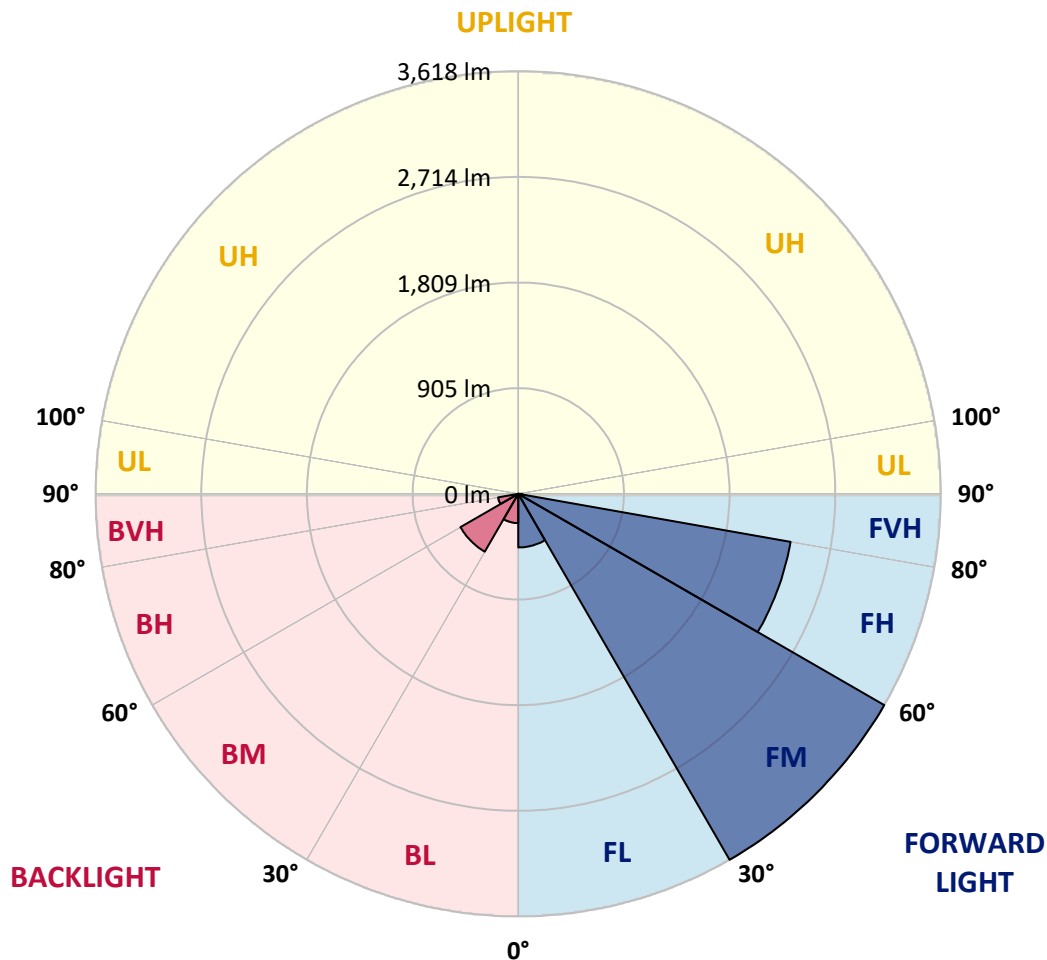
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.3	6.1			
FM (30°-60°)	3618.0	48.4			
FH (60°-80°)	2367.5	31.7			G2/5000
FVH (80°-90°)	33.5	0.4			G1/100
BL (0°-30°)	251.1	3.4	B1/500		
BM (30°-60°)	571.7	7.6	B1/1000		
BH (60°-80°)	175.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8
2.5°	866.8	872.8	871.4	869.8	869.3	870.3	870.8	870.3	870.3	870.3	870.8
5°	850.2	855.3	855.3	858.7	863.8	869.8	874.3	875.4	876.4	877.8	877.3
7.5°	818.7	822.7	825.7	837.2	849.7	865.8	879.3	886.3	887.3	892.9	894.9
10°	797.1	802.2	807.2	819.2	837.2	861.3	884.4	901.4	903.9	917.0	922.9
12.5°	796.1	801.1	807.7	820.7	841.7	867.4	895.3	919.9	924.4	943.5	956.0
15°	806.7	812.6	818.7	834.8	857.3	888.4	918.4	949.0	953.6	980.6	994.1
17.5°	828.2	836.2	840.7	856.8	880.9	915.4	955.0	990.1	994.1	1025.7	1042.7
20°	870.8	880.4	881.8	894.9	918.4	955.5	1002.7	1046.3	1051.3	1087.4	1106.5
22.5°	959.1	972.6	960.5	967.1	988.1	1025.2	1076.4	1131.5	1138.6	1179.7	1196.7
25°	1114.5	1133.5	1102.4	1091.4	1100.4	1139.1	1203.2	1272.8	1280.9	1313.9	1322.6
27.5°	1419.8	1395.2	1348.1	1302.0	1274.9	1296.9	1369.2	1455.4	1465.4	1497.5	1487.5
30°	1755.2	1733.6	1669.9	1567.6	1503.5	1500.0	1566.7	1663.0	1674.4	1705.1	1674.4
32.5°	2091.1	2070.5	2001.3	1875.4	1764.2	1709.1	1755.2	1861.9	1868.0	1887.5	1842.4
35°	2421.5	2400.3	2331.2	2202.3	2065.5	1940.1	1931.1	2051.4	2053.5	2074.0	2006.8
37.5°	2753.9	2736.2	2662.5	2536.3	2401.4	2228.5	2144.7	2230.9	2233.5	2253.5	2183.8
40°	2991.0	2998.4	2947.8	2850.1	2734.3	2545.3	2384.4	2422.0	2406.9	2440.5	2398.9
42.5°	3194.5	3209.6	3165.4	3116.3	3049.1	2882.7	2681.1	2674.6	2650.5	2668.6	2625.5
45°	3370.5	3383.0	3343.4	3331.9	3330.3	3213.6	3005.5	2966.4	2932.8	2929.3	2877.7
47.5°	3435.2	3459.2	3476.3	3514.8	3590.1	3541.0	3340.9	3280.2	3242.6	3215.0	3133.3
50°	3459.7	3485.3	3543.4	3655.8	3833.7	3854.7	3674.8	3606.6	3560.4	3510.3	3390.0
52.5°	3426.6	3472.3	3550.5	3739.4	3997.6	4106.5	3995.1	3935.5	3882.8	3801.1	3622.7
55°	3231.6	3277.2	3437.1	3738.5	4079.4	4282.9	4297.9	4271.4	4212.2	4083.4	3810.6
57.5°	2820.5	2888.1	3141.3	3611.1	4077.9	4434.8	4594.8	4613.8	4547.6	4363.1	3958.6
60°	2251.0	2342.7	2651.6	3328.9	3952.0	4517.1	4854.9	4950.1	4880.0	4638.8	4078.4
62.5°	1570.7	1677.0	1969.2	2886.7	3664.3	4457.8	5044.9	5220.9	5167.7	4885.5	4124.5
65°	958.1	992.1	1227.7	2271.5	3174.9	4210.2	5103.6	5367.3	5349.8	5036.4	4056.3
67.5°	638.2	666.8	734.4	1557.7	2464.5	3715.4	4963.3	5341.7	5346.7	5011.8	3806.6
70°	384.5	409.1	453.3	905.9	1597.3	2940.8	4528.6	5015.8	5044.9	4683.4	3333.4
72.5°	158.5	175.0	215.0	410.6	827.2	1866.4	3606.1	4306.4	4374.2	3937.9	2558.3
75°	89.8	98.3	126.4	206.0	359.0	869.8	2184.3	3057.2	3156.9	2714.2	1539.1
77.5°	59.7	63.7	81.7	133.4	202.0	296.8	933.5	1592.7	1783.3	1482.5	666.2
80°	40.1	43.7	56.2	89.3	131.3	127.3	297.2	590.1	725.9	509.3	162.5
82.5°	27.1	27.6	40.1	58.6	83.2	61.7	87.7	183.5	230.6	147.4	61.7
85°	15.6	15.1	29.6	34.1	37.1	25.5	26.5	55.1	72.2	62.1	35.1
87.5°	2.0	3.0	11.5	9.0	5.0	5.5	5.5	9.5	14.0	15.1	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8
2.5°	870.8	870.3	868.8	867.4	863.8	861.8	862.8	861.8	861.3	861.8	863.8
5°	877.3	875.9	871.9	866.8	859.8	851.3	845.7	837.7	830.2	825.7	826.7
7.5°	894.9	893.4	887.9	873.8	851.3	815.7	783.1	754.5	733.0	720.4	720.9
10°	922.9	920.4	911.9	880.9	821.6	743.9	679.3	625.7	590.6	574.0	572.6
12.5°	956.0	953.0	938.0	874.3	765.6	644.2	554.9	495.3	462.7	448.2	446.7
15°	995.2	991.2	961.6	843.3	683.8	533.9	452.2	407.5	386.5	373.5	374.0
17.5°	1043.8	1036.8	979.1	796.6	595.1	449.7	389.0	355.5	336.9	324.4	323.4
20°	1106.9	1095.4	993.1	741.0	513.3	396.6	346.4	318.4	304.3	293.3	291.3
22.5°	1195.1	1178.6	1010.2	680.8	455.7	360.0	314.9	294.3	282.8	270.2	268.2
25°	1304.5	1284.9	1031.3	625.1	416.2	328.4	291.8	274.7	261.2	246.6	245.2
27.5°	1457.3	1422.3	1056.3	579.5	382.0	301.3	270.7	251.6	236.2	224.1	221.6
30°	1627.8	1570.2	1078.4	552.0	351.0	276.2	243.1	224.1	209.5	201.0	199.6
32.5°	1789.2	1711.0	1093.0	540.0	322.9	247.6	213.1	192.5	181.5	179.0	180.5
35°	1941.7	1838.4	1091.4	528.4	297.8	219.0	183.5	162.5	154.0	155.4	155.4
37.5°	2117.1	1974.3	1080.9	510.3	277.3	193.0	158.0	139.4	131.8	132.3	134.4
40°	2321.2	2131.2	1074.4	476.3	254.7	168.9	136.8	121.9	116.3	114.3	113.8
42.5°	2538.7	2283.1	1075.3	437.7	226.6	147.4	122.3	109.8	104.8	103.3	102.8
45°	2757.4	2427.9	1076.9	397.6	197.0	130.9	111.8	101.3	98.3	96.2	96.2
47.5°	2962.9	2551.3	1048.8	354.4	168.0	118.3	103.3	96.2	93.8	91.2	91.2
50°	3154.4	2633.5	981.1	304.3	144.9	108.2	96.8	91.7	89.3	86.7	86.7
52.5°	3303.3	2646.5	869.3	252.7	128.8	100.8	92.8	88.3	85.2	82.7	82.2
55°	3369.5	2564.9	710.4	204.6	116.3	94.3	88.8	84.3	80.7	78.2	77.7
57.5°	3352.5	2392.9	554.0	164.4	104.2	87.7	83.7	80.7	76.7	72.7	72.2
60°	3268.7	2162.8	417.6	136.8	93.3	80.7	78.2	75.7	70.2	64.2	63.1
62.5°	3123.8	1873.5	297.8	113.3	81.2	72.7	71.6	69.7	61.7	50.6	49.6
65°	2902.2	1522.0	200.5	94.3	69.7	63.7	64.2	60.7	50.1	37.6	36.6
67.5°	2578.4	1112.9	128.3	77.2	58.1	53.1	53.6	51.7	42.6	32.1	30.5
70°	2165.7	737.0	83.7	58.6	46.6	41.1	44.1	44.6	36.1	26.0	25.1
72.5°	1587.7	435.1	58.6	43.7	34.1	28.6	36.1	37.1	29.1	19.6	18.6
75°	904.9	206.5	44.1	31.6	21.0	20.1	28.1	28.1	20.1	13.0	12.0
77.5°	380.0	86.2	31.1	20.6	12.0	11.5	19.1	17.5	10.0	6.0	6.0
80°	109.8	38.6	16.5	10.0	5.0	4.5	7.5	5.5	2.5	1.0	1.0
82.5°	43.2	17.0	6.6	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	25.5	7.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)